

The National Atmospheric Release Advisory Center, NARAC, provides tools and services to the Federal Government, that map the probable spread of hazardous material accidentally or intentionally released into the atmosphere. NARAC provides atmospheric plume predictions in time for an emergency manager to decide if taking protective action is necessary to protect the health and safety of people in affected areas.

Located at the Lawrence Livermore National Laboratory, NARAC is a national support and resource center for planning, real-time assessment, emergency response, and detailed studies of incidents involving a wide variety of hazards, including nuclear, radiological, chemical, biological, and natural emissions.

In an emergency situation (if lives are at risk), event-specific NARAC support for non-NARAC customers can be requested through the Department of Energy Watch Office (202-586-8100).

For more information about NARAC please contact us or send email .

LLNL and Visitor Information.

Recent Updates: May 2010 , Release of HotSpot 2.07.1

Direct comments to: web administrator

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AND Chemicals

Home

Help

Database of Hazardous Materials

Search Chemicals

New Search



Search

Find response information for thousands of hazardous materials, including fire and explosion hazards, health hazards, firefighting techniques, cleanup procedures, protective clothing, and chemical properties.

MyChemicals

chemicals: 0 View MyChemicals

Predict Reactivity



MyChemicals

Build a list of chemicals. For example, substances involved in an incident response (such as a train derailment) or chemicals stored in your community.



Reactivity

See what hazards might occur if chemicals in your MyChemicals collection are mixed together.

Get started by finding a substance of interest with a search.

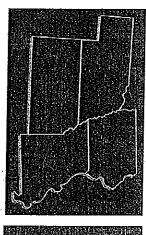
Learn more by checking the <u>help</u> for background information, a glossary of terms, and guidance on using this database.



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Web site owner: Office of Response and Restoration, NOAA's Ocean Service, National Oceanic and Atmospheric Administration.

US Government main portal: USA.gov.



Heardland Emergency Response Exchange

The results of this project will include a fully functional system for Emergency Operations robust and intuitive manner (EOP) to access environmental data that originates from multiple organizations in a

with the EOP access needs, these data elements will be implemented through a set of Web Services allowing the HERE client to provide a coherent view of this data to assist in response to emergency. The specific types of data served by each provider will be based on an assessment of availability, quality and completeness. Once balanced

The Purpose

easily be expanded to include other state partners and state emergency planning agencies and EPA. Secondary response planning. Once completed, this solution could others involved in homeland security/emergency situations occurring within or across state boundaries. to enhance decision-making and risk assessment for based process among the four states in EPA Region VII potentially serve as a national model. other federal agencies, local emergency planners, and users of the exchanges may be other state agencies, sharing the data from five agencies in lowa, Kansas, among multiple partners, including integrating and facility data as well as other environmental information implementation utilizing the Exchange Network's to provide available environmental, health, and natural The primary users of the Internet-based process will be Homeland Security and/or Emergency Response Missouri, and Nebraska. The resulting data will be used infrastructure. The project will implement exchanges of homeland security/emergency response planning and resource information to state agencies involved in The purpose of this project is to develop an internet-

The Challenge

Effective homeland security and emergency management demands a combination of proactive preparation and reactive response. Much of this data is owned and managed by environmental agencies, and yet should be highly accessible by emergency responders, within State Emergency Operations Centers (EOC) and local authorities. Historically, EOPs have only had limited access to this data which has hindered their ability to prepare for and respond to emergency situations. These limitations include:

- Missing data
- Unreliable data
- Disintegrated data systems
- Jurisdictional data isolation
- Communication infrastructure fallibility

These issues limit the EOP's abilities; however all of these constraints can be addressed using an already available technology.

The Solution

The advent of the Exchange Network (EN) has provided the necessary tools needed to support a robust and efficient exchange of data between environmental agencies and their partners. Many of the previously outlined challenges can now be addressed by the EN's ability to securely and reliably exchange data. Combined with a powerful data retrieval tool, the HERE project will incorporate a full life-cycle Internet-based data inquiry application based on the selected data flows at each agency with an intuitive, yet powerful data retrieval tool custom-developed to support the needs of the EOPs and many others.

